

# UNITED STATES DEPARTMENT OF COMMERCE

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FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO.

09/210,055

12/11/98

MILLER

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**EXAMINER** 

HAVAN, T

ART UNIT PAPER NUMBER

2672

**DATE MAILED:** 

05/22/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks .

Office Action Summary	Application No.	Applicant(s)
	09/210,055	MILLER, JOHN DAVID
	Examiner	Art Unit
	Thu-Thao Havan	2672
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status		
1) Responsive to communication(s) filed on 05	<u>March 2001</u> .	
2a)  This action is <b>FINAL</b> . 2b)	nis action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) ☐ Claim(s) <u>20</u> is/are allowed.		
6) ☐ Claim(s) <u>1-19</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claims are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10) The drawing(s) filed on is/are objected to by the Examiner.		
11) The proposed drawing correction filed on is: a) approved b) disapproved.		
12) The oath or declaration is objected to by the Examiner.		
Priority under 35 U.S.C. § 119		
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) ☐ All b) ☐ Some * c) ☐ None of:		
1.☐ Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3.☐ Copies of the certified copies of the priority documents have been received in this National Stage		
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.		
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).		
Attachment(s)		
<ul> <li>15) Notice of References Cited (PTO-892)</li> <li>16) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>17) Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ul>	19) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)

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#### **DETAILED ACTION**

### Response to Arguments

Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bier et al. (US patent no. 5,617,114) in view of Kajiwara (US patent no. 5,872,872).

- 1. As to claims 1, 5, 9-11, and 15-16, the prior art Bier had:
- A.) A method comprising modulating the transparency of an image of an object (col. 15, lines 42-67; fig. 4-11). Bier teaches modulating the transparency of an image by the gradual passing of one click-through to another. The click-through buttons are transparent because the background images are still viewable when the buttons are on top of them.
- B.) An object as a function of an angle of incidence of a vector normal to a viewing surface of the object (col. 17, lines 56-67; col. 18, lines 1-5; col. 19, lines 20-45; col. 20, lines 14-37; fig. 12-19, 22, and 25). Bier teaches the anchor position of an object such as knowing the measurement of the rectangle corner underneath one, transparent command button. For example, figure 22

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discloses the measurements of the viewpoint of the angles of an object then the angles are recorded and scaled.

- C.) A system comprising a display and an image of an object projected on the display (col. 9, lines8-54; fig. 2). In figure 2, Bier clearly teaches a display image in his system.
- D.) A system for controlling the transparency of an image of an object, the system comprising a display, a processor capable of driving the display with an image and a graphics engine capable of running on the processor (col. 7, lines 18-67; col. 8-12; fig. 1-3, 36, and 38). Bier teaches a computer system for the transparent button commands that includes parsers, which are executable instructions. The parser controls the system, which controls the transparency of an image of an object.

However, Bier fails to explicitly teach the step of calculating the transparency factor.

Nonetheless, Bier teaches the transparency of the command buttons overlaying an image and scaling the angles of the command buttons. The command buttons are transparent therefore when Bier scales the angles then he is calculating the transparency factor. Both Bier and Kajiwara teaches the transparency factor for an image. The difference is that the transparency factor for Bier is the command buttons and for Kajiwara is the windows. Kajiwara generates a transparency factor for an image of an object when he discloses the transparent image areas (called windows) that are normally overlapped with the background images or with other windows. Furthermore, Kajiwara teaches the step of calculating the transparency factor of the windows when he discloses the calculating viewpoint of the transparent windows in his mathematical formulas. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the step of calculating the transparency factor because Kajiwara

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teaches the calculating of the overlapping and transparent windows (col. 8, lines 41-67; col. 9-10; fig. 6-12).

- 2. As to claims 2, 6, 12, and 17, Kajiwara discloses a cosine function (col. 13, lines 20-52; col. 6-7; fig. 9-12). In figures 10 to 11, Kajiwara teaches the functionality of a cosine function for the transparent windows.
- 3. As to claims 3, 7, 13, and 18, Kajiwara discloses a linear function (col. 3, lines 14-67; col. 4; fig. 15). Kajiwara discloses the linear calculation of the viewpoint coordinates for the transparent windows.
- 4. As to claims 4, 8, 14, and 19, Kajiwara discloses a non-linear function (col. 8-15). Kajiwara teaches the calculation of the matrix system in a non-linear formula.

## Allowable Subject Matter

Claim 20 is allowed.

The following is an examiner's statement of reasons for allowance: Examiner searching for the steps of (1) assigning a function of theta minus pi to alpha if the mode is back\_only and comparing alpha to zero and (2) a graphics engine capable of running on the processor, generating the image and modulating the transparency of the image as a cosine function of an angle of incidence of a vector normal to a viewing surface at the surface of the object, in combination with the other elements of the claims, was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Huang, US Patent No. 6,175,663

Berman et al., US Patent No. 6,134,346

Ellert, US Patent No. 5,995,078

Maltz, US Patent No. 4,827,253

Krueger et al., US Patent No. 5,265,202

Wachi, US Patent No. 6,215,588

Von Behren, US Patent No. 4,458,688

Gueziec et al., US Patent No. 5,951,475

Kempe, US Patent No. 6,151,127

Demarais et al., US Patent No. 6,097,978

Albert, US Patent No. 4,144,457

#### Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu-Thao Havan whose telephone number is (703) 308-7062. The examiner can normally be reached on 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on (703) 305-4713. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-5359 for regular communications and (703)308-5359 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9500.

Thu-Thao Havan

May 15, 2001

MATTHEW LUU PRIMARY EXAMINER

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